

Amendment and Response

Applicant: Thomas A. Saks

Serial No.: 09/940,363

Filed: August 27, 2001

Docket No.: 10011180-1

Title: MEASUREMENT AND MARKING DEVICE

IN THE CLAIMS

Please amend claims 1, 22, 34, and 35 as follows:

1. (Currently Amended) A measurement and marking device, comprising:
 - a housing;
 - a positional sensing assembly mounted in the housing and adapted to sense a position of the housing relative to an object as the housing is moved along a surface of the object;
 - a printhead assembly mounted in the housing and adapted to print on the surface of the object as the housing is moved along the surface of the object;
 - a controller mounted in the housing and communicating with the positional sensing assembly and the printhead assembly, wherein the controller is adapted to operate the printhead assembly to print a mark on the surface of the object based on the position of the housing relative to the object as the housing is moved along the surface of the object; and
 - a user interface mounted on the housing and communicating with the controller, the user interface including an input configured for operation by a user to record the position of the housing relative to the object,
 - wherein the housing has a first side adapted to be oriented substantially parallel with the surface of the object as the housing is moved along the surface of the object and includes a first opening formed in the first side and a second opening formed in the first side,
 - wherein the positional sensing assembly communicates with the first side of the housing through the first opening and the printhead assembly communicates with the first side of the housing through the second opening,
 - wherein the controller is adapted to store the position of the housing relative to the object as a measurement of the object when the input of the user interface is operated by the user.
2. (Original) The measurement and marking device of claim 1, wherein the positional sensing assembly is adapted to sense a position of the housing relative to a first object and measure a dimension of the first object as the housing is moved along a surface of the first object, wherein the positional sensing assembly is adapted to sense a position of the housing relative to a second object as the housing is moved along a surface of the second object, and

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wherein the controller is adapted to operate the printhead assembly to print the mark on the surface of the second object based on the dimension of the first object and the position of the housing relative to the second object as the housing is moved along the surface of the second object.

3. (Cancelled)

4. (Previously Presented) The measurement and marking device of claim 2, wherein the controller is adapted to operate the printhead assembly to print the mark on the surface of the second object based on the position of the housing relative to the first object when the input is operated by the user and the position of the housing relative to the second object as the housing is moved along the surface of the second object.

5. (Original) The measurement and marking device of claim 1, wherein the controller is adapted to operate the printhead assembly to print a plurality of markings on the surface of the object at predetermined intervals as the housing is moved along the surface of the object.

6. (Original) The measurement and marking device of claim 5, wherein the plurality of markings represent one of standard measurements and scaled measurements.

7. (Original) The measurement and marking device of claim 1, wherein the printhead assembly is adapted to print at least one of graphics and text on the surface of the object as the housing is moved along the surface of the object.

8. (Original) The measurement and marking device of claim 1, wherein the positional sensing assembly includes a wheel rotatably mounted in the housing, wherein the wheel is adapted to contact the surface of the object and rotate as the housing is moved along the surface of the object, and wherein the controller is adapted to determine the position of the housing relative to the object based on rotation of the wheel.

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9. (Original) The measurement and marking device of claim 1, wherein the positional sensing assembly includes an optical sensor mounted in the housing, wherein the optical sensor is adapted to sense the surface of the object as the housing is moved along the surface of the object, and wherein the controller is adapted to determine the position of the housing relative to the object based on the surface of the object.

10. (Cancelled)

11. (Cancelled)

12. (Previously Presented) The measurement and marking device of claim 1, wherein the printhead assembly includes a plurality of orifices formed in a front face thereof, wherein the front face communicates with the first side of the housing.

13. (Original) The measurement and marking device of claim 1, further comprising:
a power supply mounted in the housing, wherein the power supply supplies power to the measurement and marking device.

14-21. (Cancelled)

22. (Currently Amended) A method of transferring a measurement of a first object to a second object, the method comprising:

moving a housing along a surface of the first object, including orienting a first side of the housing substantially parallel with the surface of the first object;

sensing a position of the housing relative to the first object with a positional sensing assembly mounted in the housing and communicating with the first side of the housing through a first opening in the first side of the housing as the housing is moved along the surface of the first object;

locating a feature of the first object, including receiving user input at the feature of the first object with an input of a user interface mounted on the housing and storing the position

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of the housing at the feature of the first object as the measurement of the first object with a controller mounted in the housing and communicating with the user interface;

moving the housing along a surface of the second object, including orienting the first side of the housing substantially parallel with the surface of the second object;

sensing a position of the housing relative to the second object with the positional sensing assembly as the housing is moved along the surface of the second object; and

printing a mark representing the feature of the first object on the surface of the second object with a printhead assembly mounted in the housing and communicating with the first side of the housing through a second opening in the first side of the housing when the position of the housing relative to the second object coincides with the position of the housing at the feature of the first object.

23. (Previously Presented) The method of claim 22, wherein sensing the position of the housing relative to the first object includes measuring a dimension of the first object, wherein locating the feature of the first object includes measuring at least one of a dimension to the feature of the first object and a dimension of the feature of the first object, and wherein printing the mark on the surface of the second object includes printing the mark on the surface of the second object when the position of the housing relative to the second object coincides with the at least one of the dimension to the feature of the first object and the dimension of the feature of the first object.

24. (Cancelled)

25. (Cancelled)

26. (Cancelled)

27. (Previously Presented) The method of claim 22, wherein printing the mark on the surface of the second object includes printing at least one of graphics and text on the surface of the second object.

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28. (Previously Presented) The method of claim 22, wherein moving the housing along the surface of the first object and the surface of the second object includes contacting the surface of the first object and the surface of the second object with a wheel rotatably mounted in the housing and rotating the wheel, and wherein sensing the position of the housing relative to the first object and the second object includes determining the position of the housing relative to the first object and the second object based on rotation of the wheel.

29. (Previously Presented) The method of claim 22, wherein moving the housing along the surface of the first object and the surface of the second object includes sensing the surface of the first object and the surface of the second object with an optical sensor mounted in the housing, and wherein sensing the position of the housing relative to the first object and the second object includes determining the position of the housing relative to the first object and the second object based on the surface of the first object and the surface of the second object, respectively.

30. (Previously Presented) The measurement and marking device of claim 1, wherein the positional sensing assembly is adapted to measure a dimension of a first object as the housing is moved along a surface of the first object, and wherein the controller is adapted to operate the printhead assembly to print the mark on a surface of a second object at the dimension of the first object as the housing is moved along the surface of the second object.

31. (Previously Presented) The measurement and marking device of claim 1, wherein the positional sensing assembly is adapted to measure a dimension of a first object as the housing is moved along a surface of the first object, and wherein the controller is adapted to operate the printhead assembly to print the mark on a surface of a second object at predetermined intervals within the dimension of the first object as the housing is moved along the surface of the second object.

32. (Previously Presented) The method of claim 22, wherein sensing the position of the housing relative to the first object includes measuring a dimension of the first object, and

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wherein printing the mark on the surface of the second object includes printing the mark on the surface of the second object at the dimension of the first object.

33. (Previously Presented) The method of claim 22, wherein sensing the position of the housing relative to the first object includes measuring a dimension of the first object, and wherein printing the mark on the surface of the second object includes printing the mark on the surface of the second object at predetermined intervals within the dimension of the first object.

34. (Currently Amended) The measurement and marking device of claim 1, wherein the controller is adapted to operate the printhead assembly to print the mark on the surface of the object based on the position of the housing relative to the object and the measurement of the object as stored by the controller.

35. (Currently Amended) The method of claim 22, wherein printing the mark on the surface of the second object includes printing the mark on the surface of the second object based on the position of the housing relative to the second object and the measurement of the first object as stored by the controller.